

WASHING DEVICE FOR DISPENSATION INJECTION NOZZLE

Patent Number: JP5001983
Publication date: 1993-01-08
Inventor(s): IMABAYASHI HIROYUKI; others:
Applicant(s): OLYMPUS OPTICAL CO LTD
Requested Patent: ☐ JP5001983
Application JP19910020174 19910213
Priority Number(s):
IPC Classification: G01N1/00
EC Classification:
Equivalents: JP3246752B2

Abstract

PURPOSE:To enable both inner and outer sides of a dispensation injection nozzle to be sufficiently washed with a simple means, and prevent the stagnation of water after washing.

CONSTITUTION:Six piezoelectric elements 38 of 1mm thickness are laminated between the first and second oscillators 36 and 37, and clamped therewith to constitute a Langevin oscillator 28. Also, a horn section 30 is provided under the oscillator 28. Furthermore, a stainless steel hollow dispensation injection nozzle 32 is extended down from the horn section 30, and a washing section 34 is fitted under the nozzle 32 for the washing thereof. According to this construction, a sample 35 adhering to both inner and outer sides of the nozzle 32 can be completely removed therefrom, by the loop effect of an ultrasonic vibration and the pressurized feed force of ion exchange solution 31.

Data supplied from the esp@cenet database - I2